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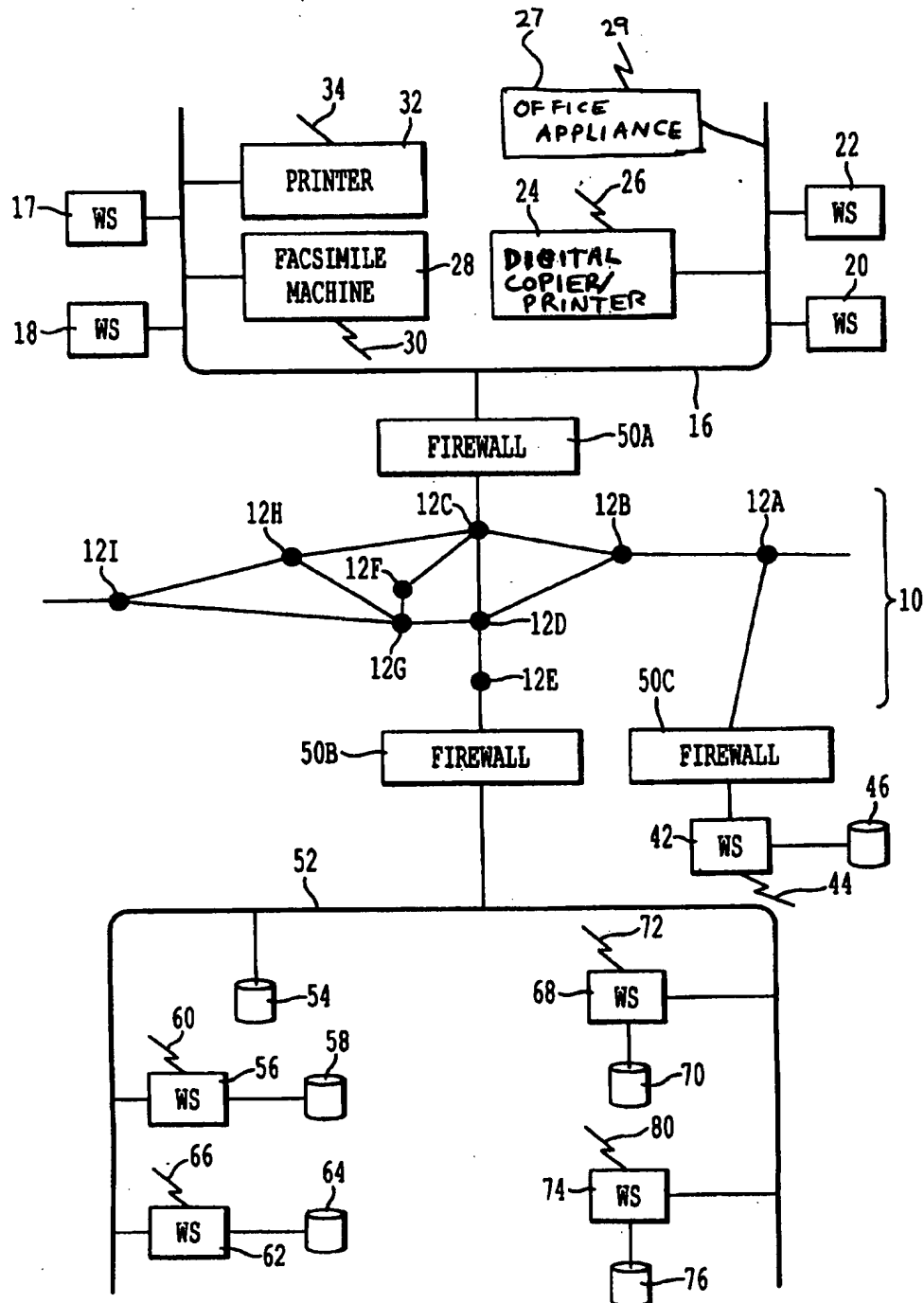


FIG. 1

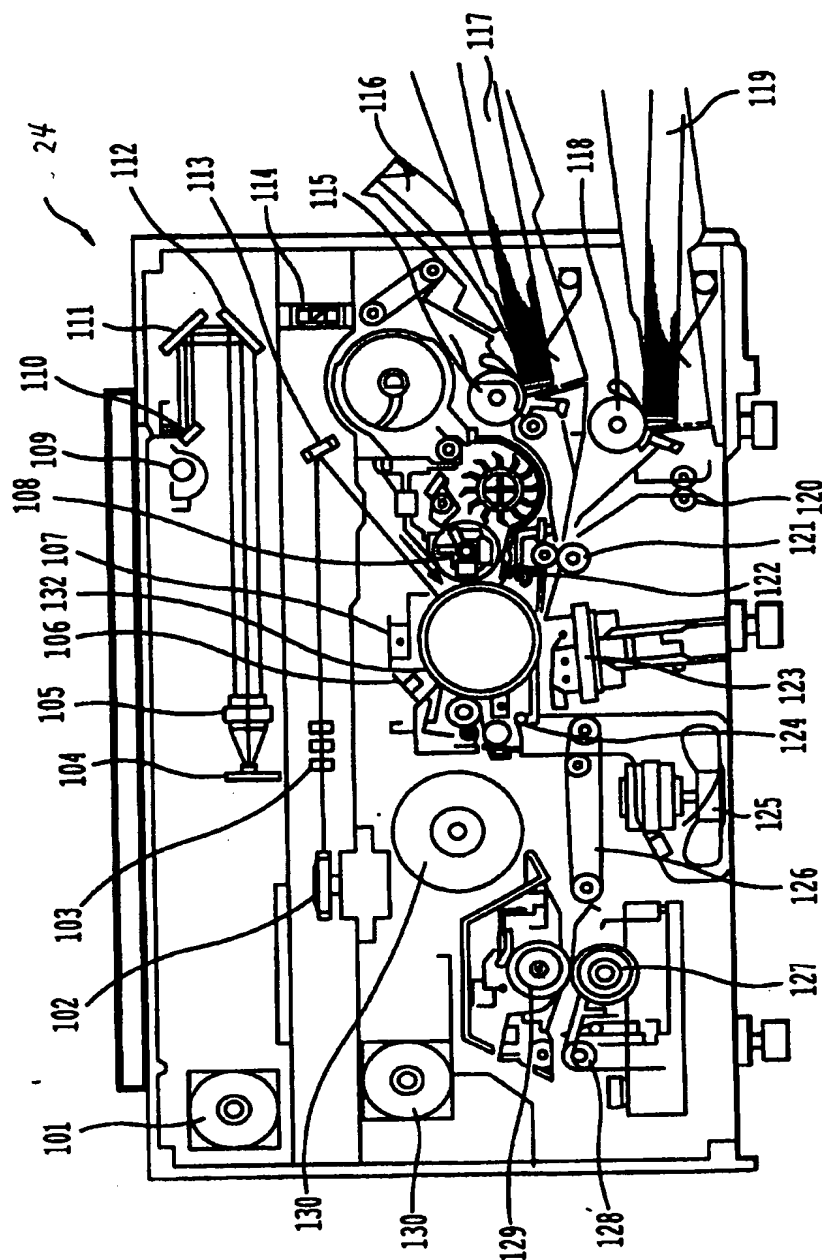


FIG. 2

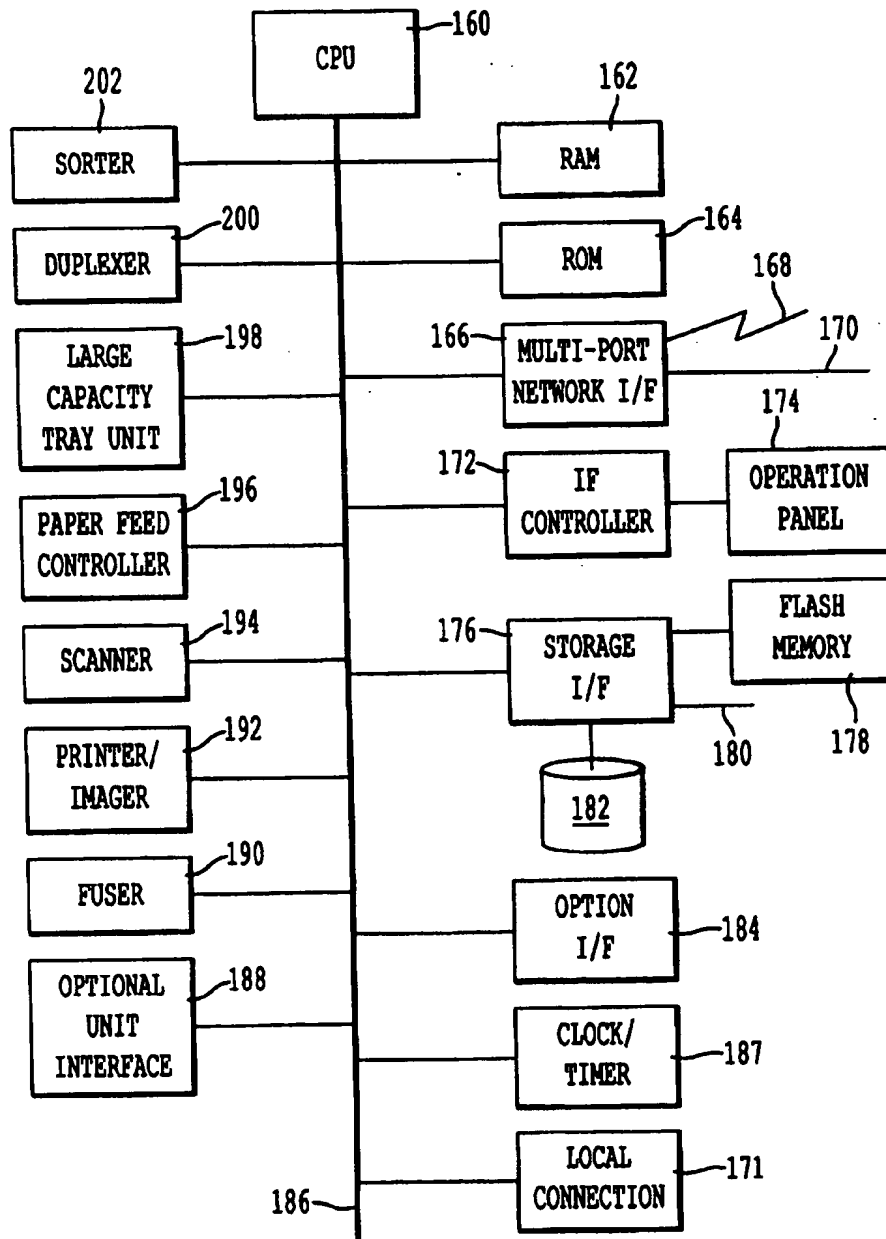


FIG. 3

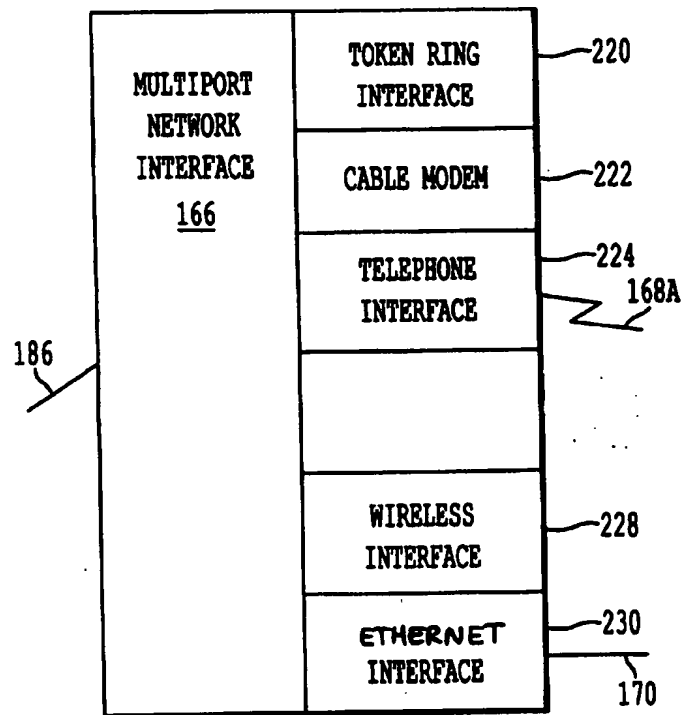


FIG. 4

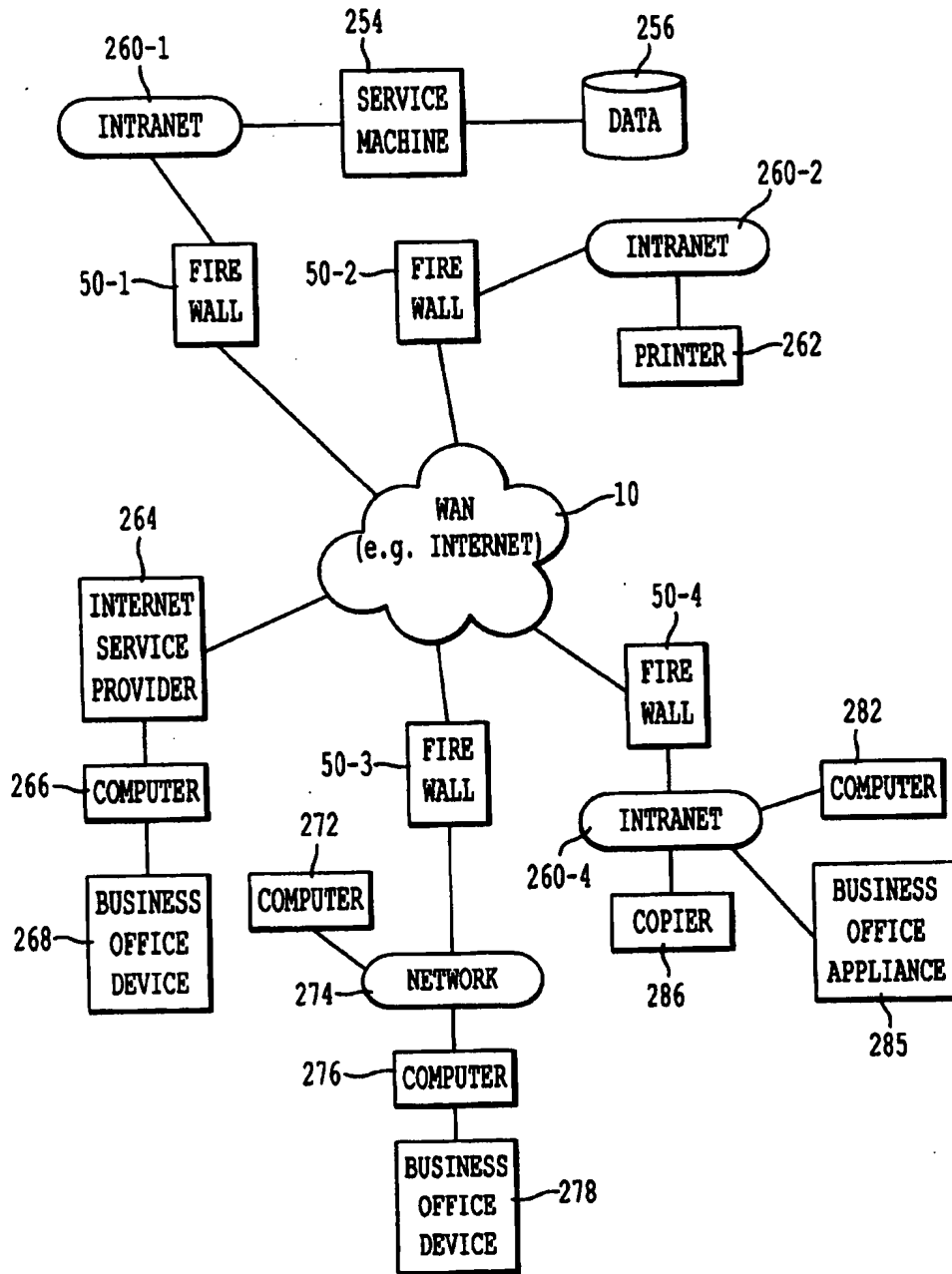


FIG. 5

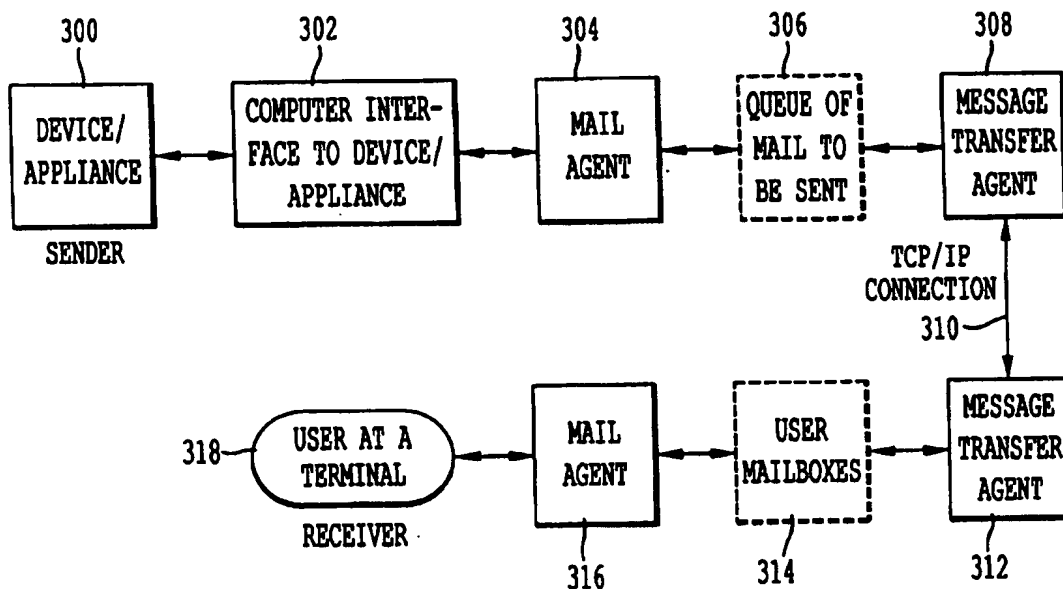


FIG. 6A

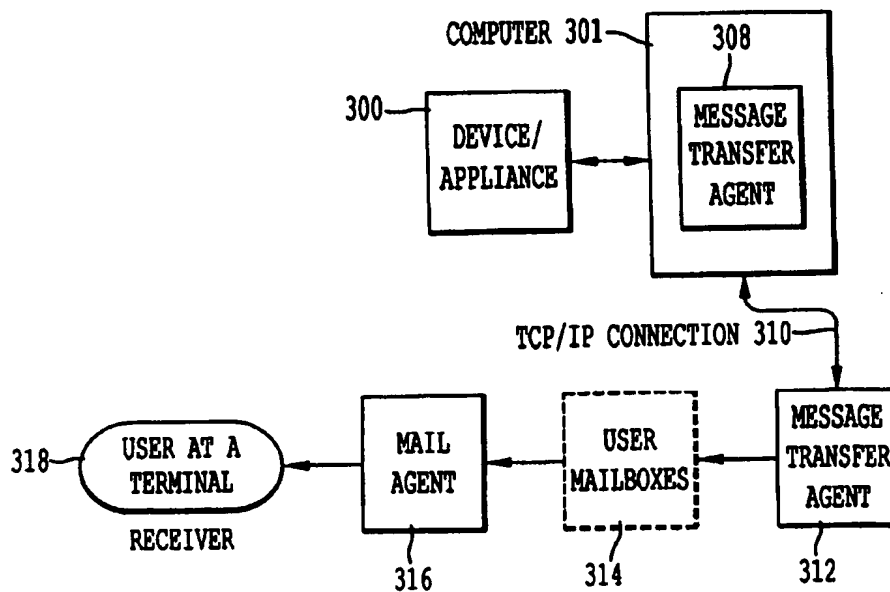


FIG. 6B

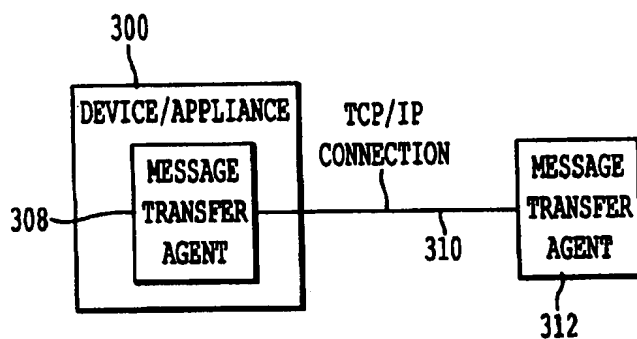


FIG. 6C

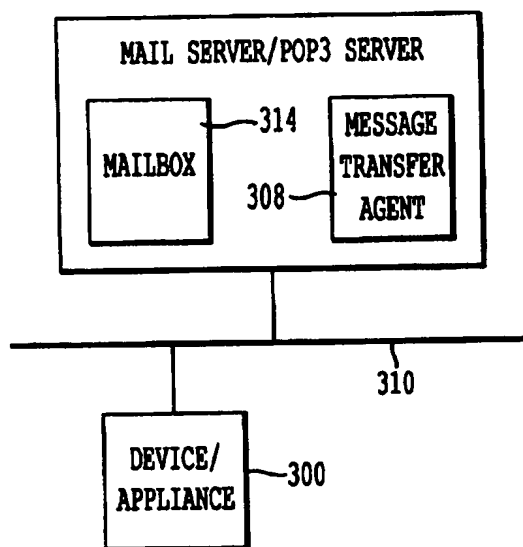


FIG. 6D

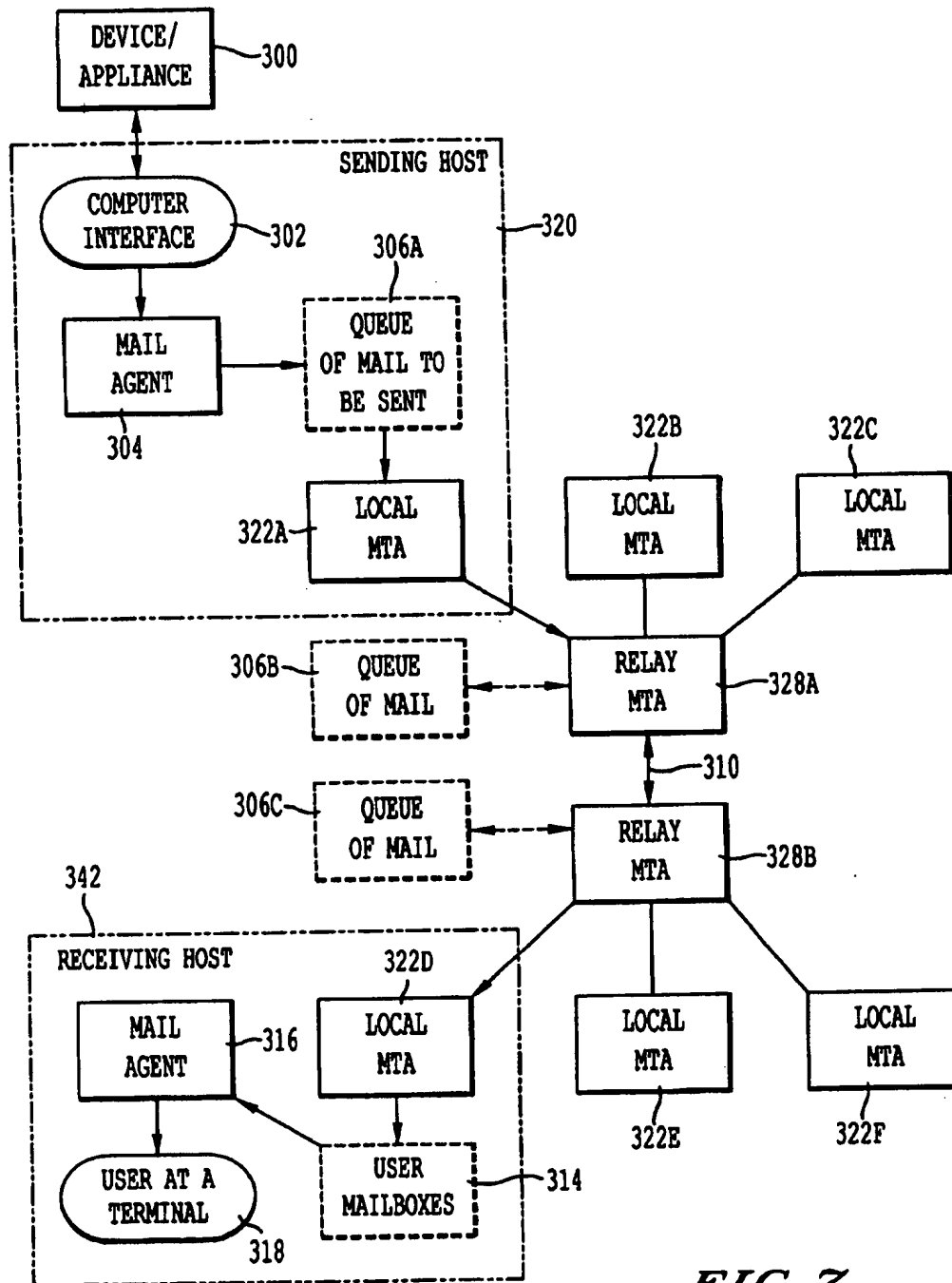


FIG. 7

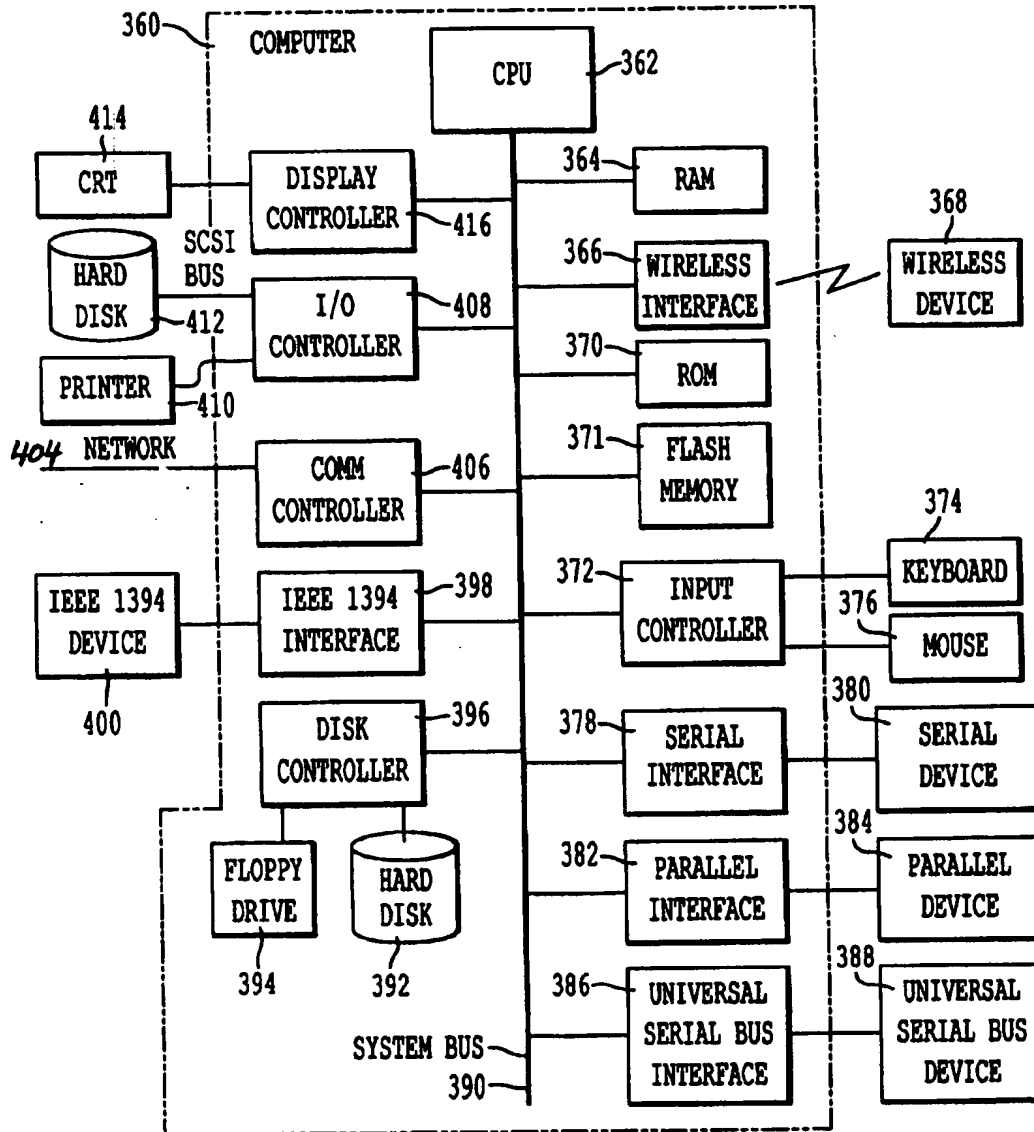


FIG. 8

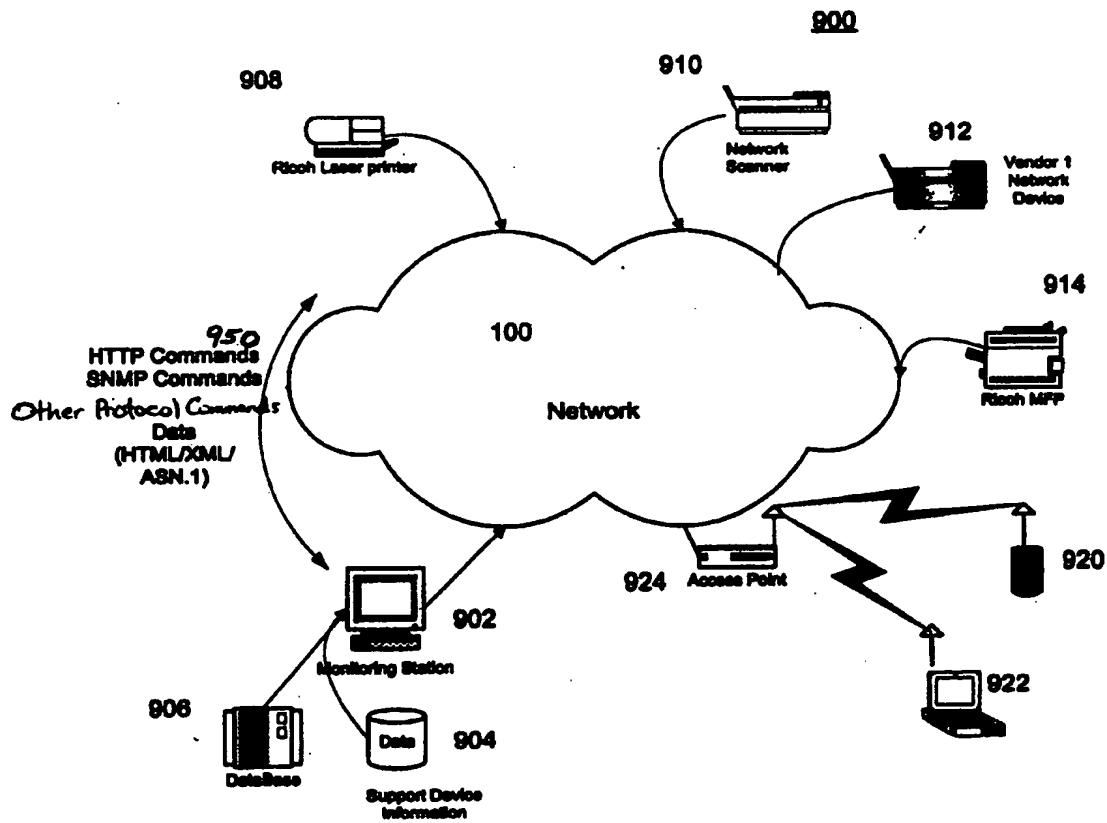


Figure 9

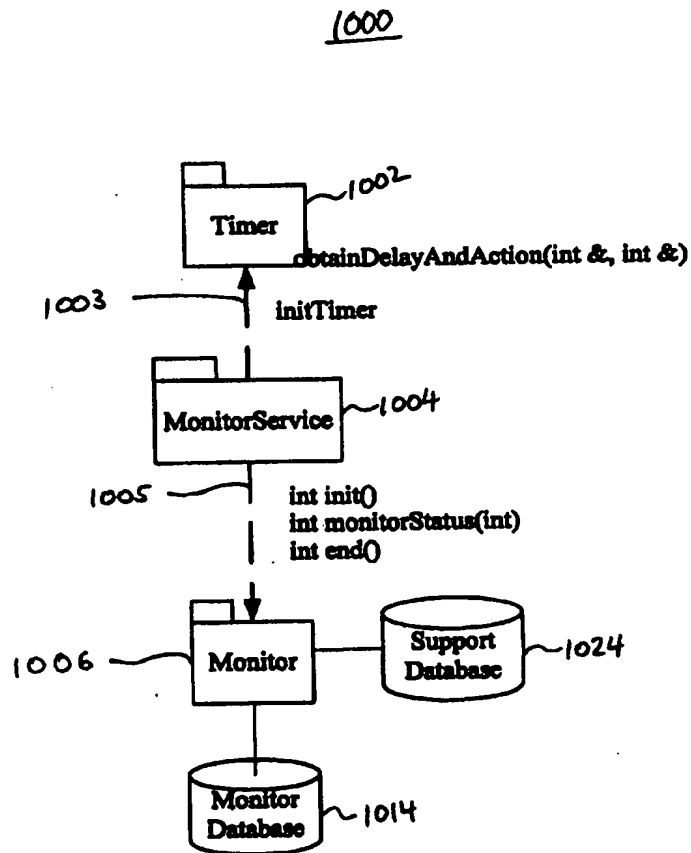


FIG. 10

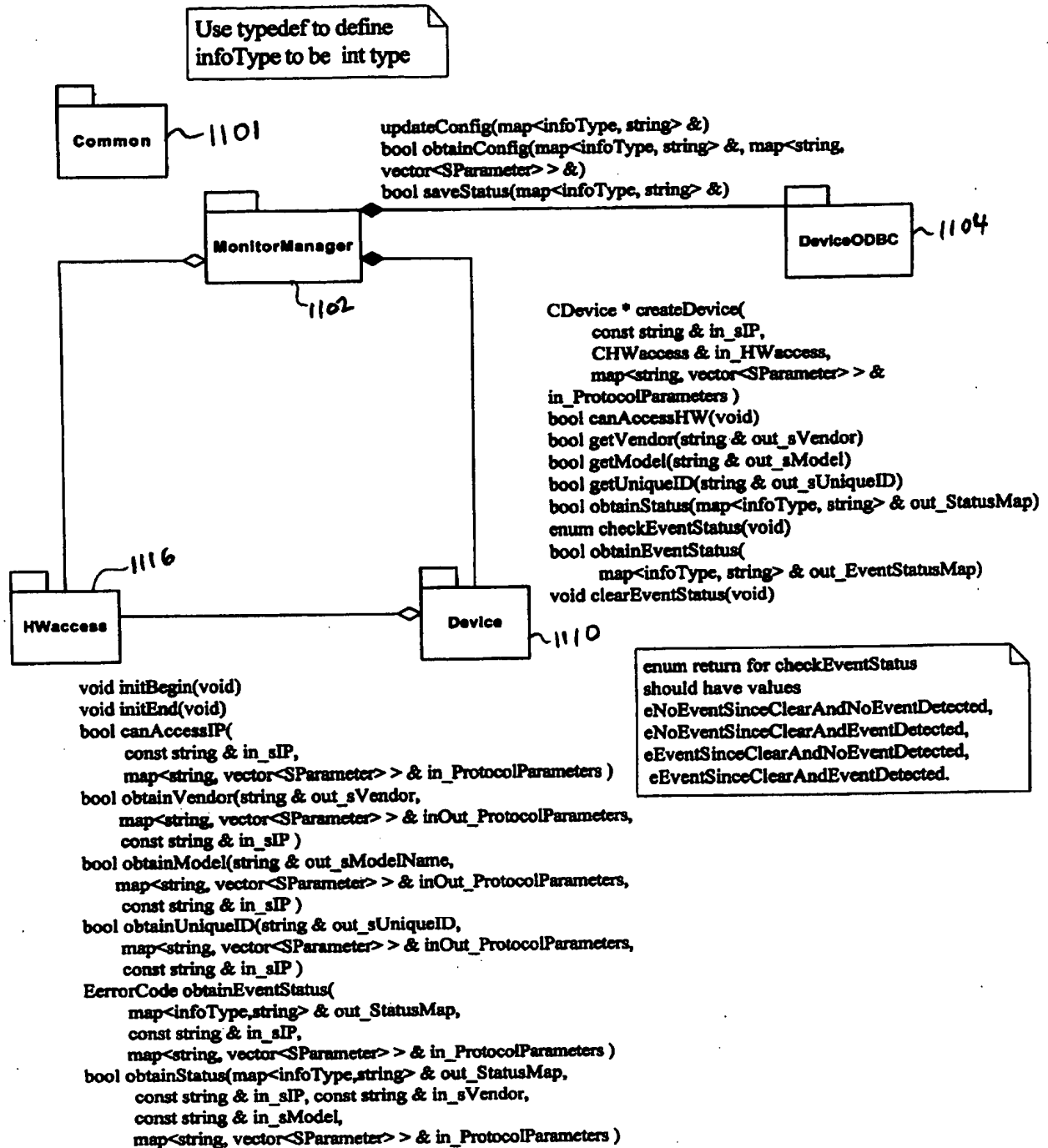


FIG. 11

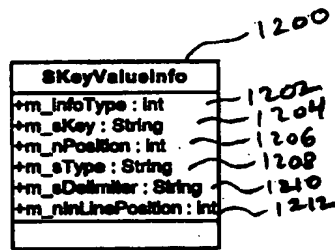


FIG. 12

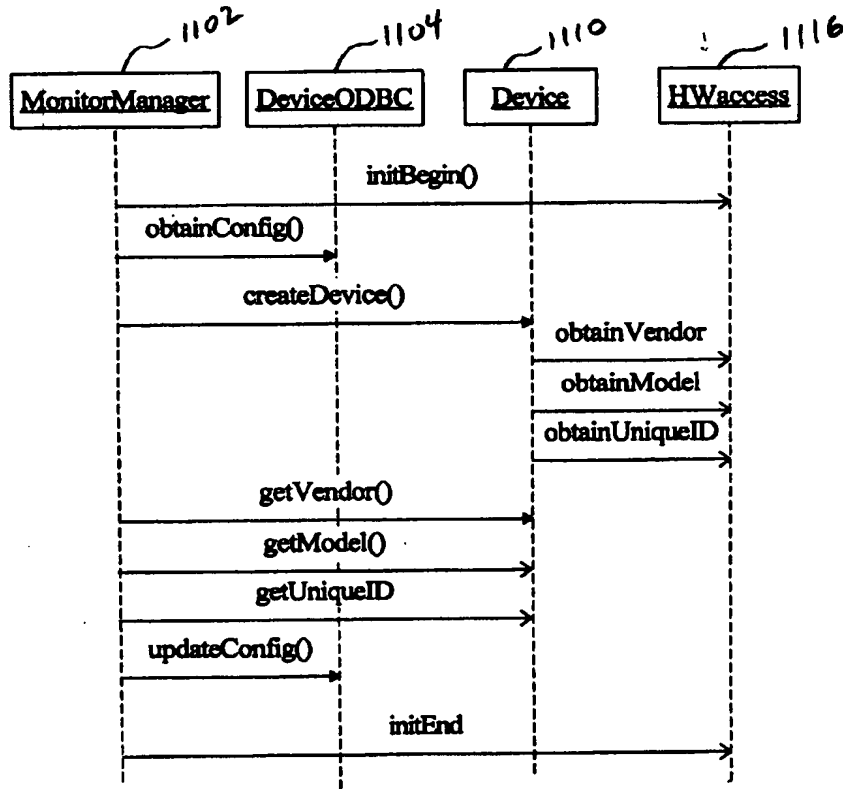


FIG. 13

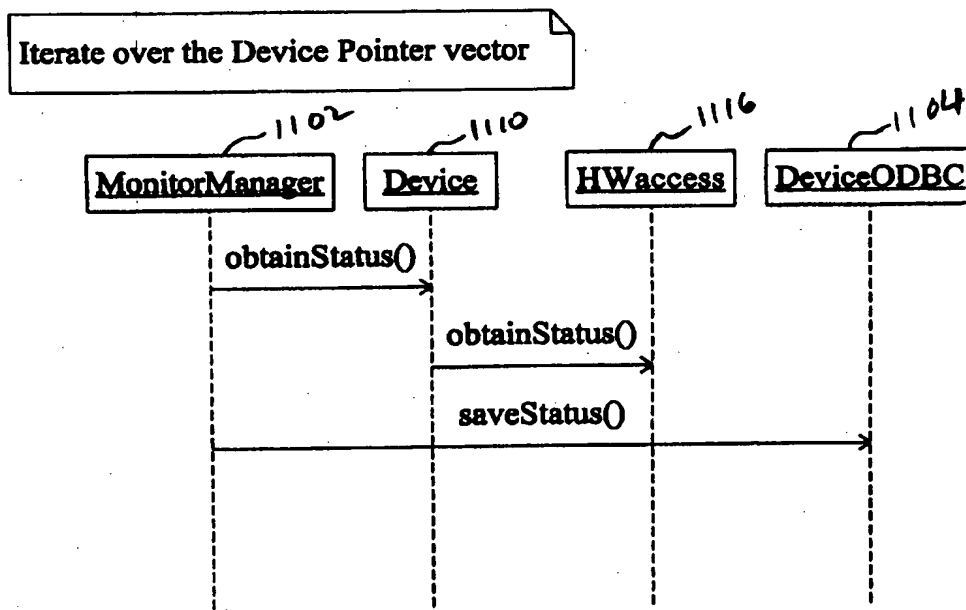


FIG. 14

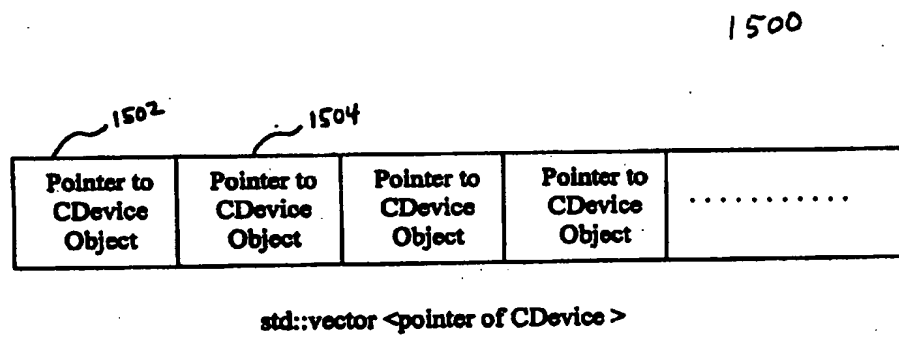


FIG. 15

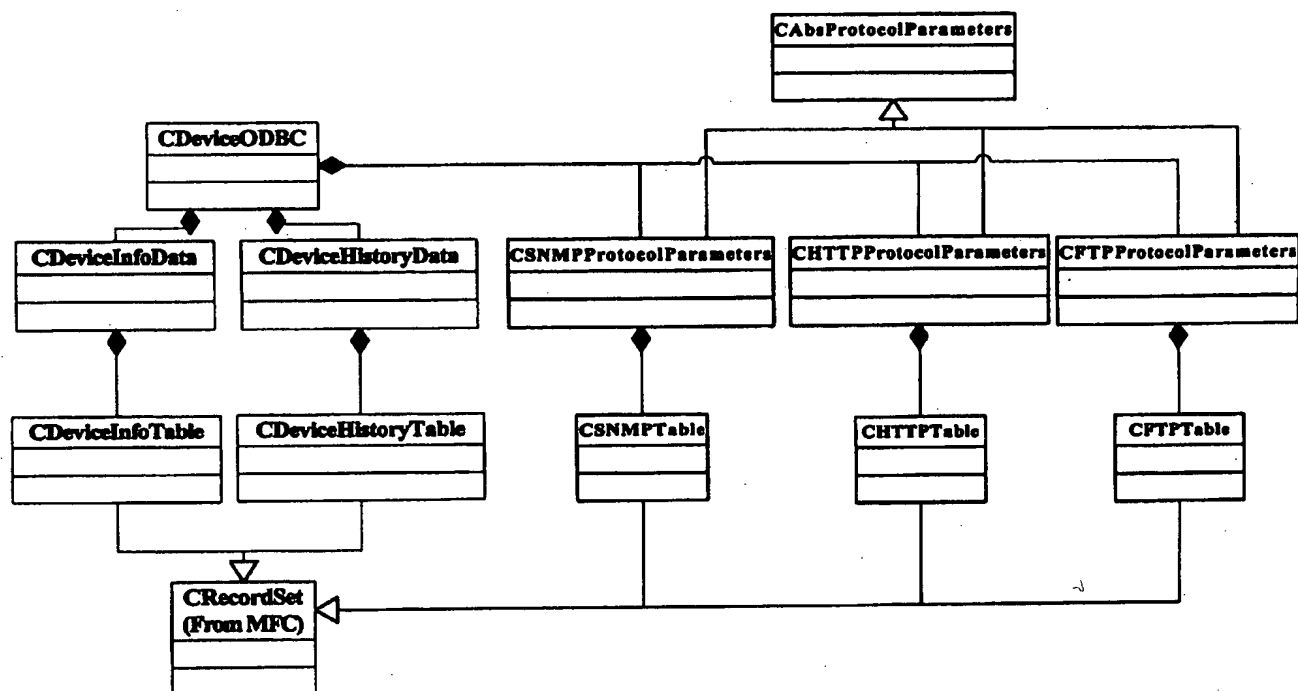


FIG. 16

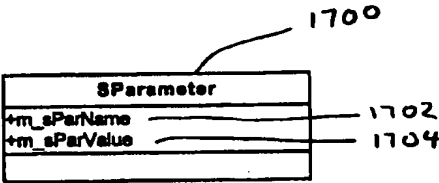


FIG. 17

A diagram of a table structure labeled 1800. The table has two columns: "Protocol (Key)" and "Vector of SParameter (Value)". There are three rows. The first row has "SNMP" in the first column and an empty cell in the second column. The second row has "HTTP" in the first column and an empty cell in the second column. The third row has "FTP" in the first column and an empty cell in the second column. Labels 1802, 1804, and 1806 point to the first column of the first, second, and third rows respectively. Labels 1808, 1810, and 1812 point to the second column of the first, second, and third rows respectively.

Protocol (Key)	Vector of SParameter (Value)
"SNMP"	
"HTTP"	
"FTP"	

FIG. 18

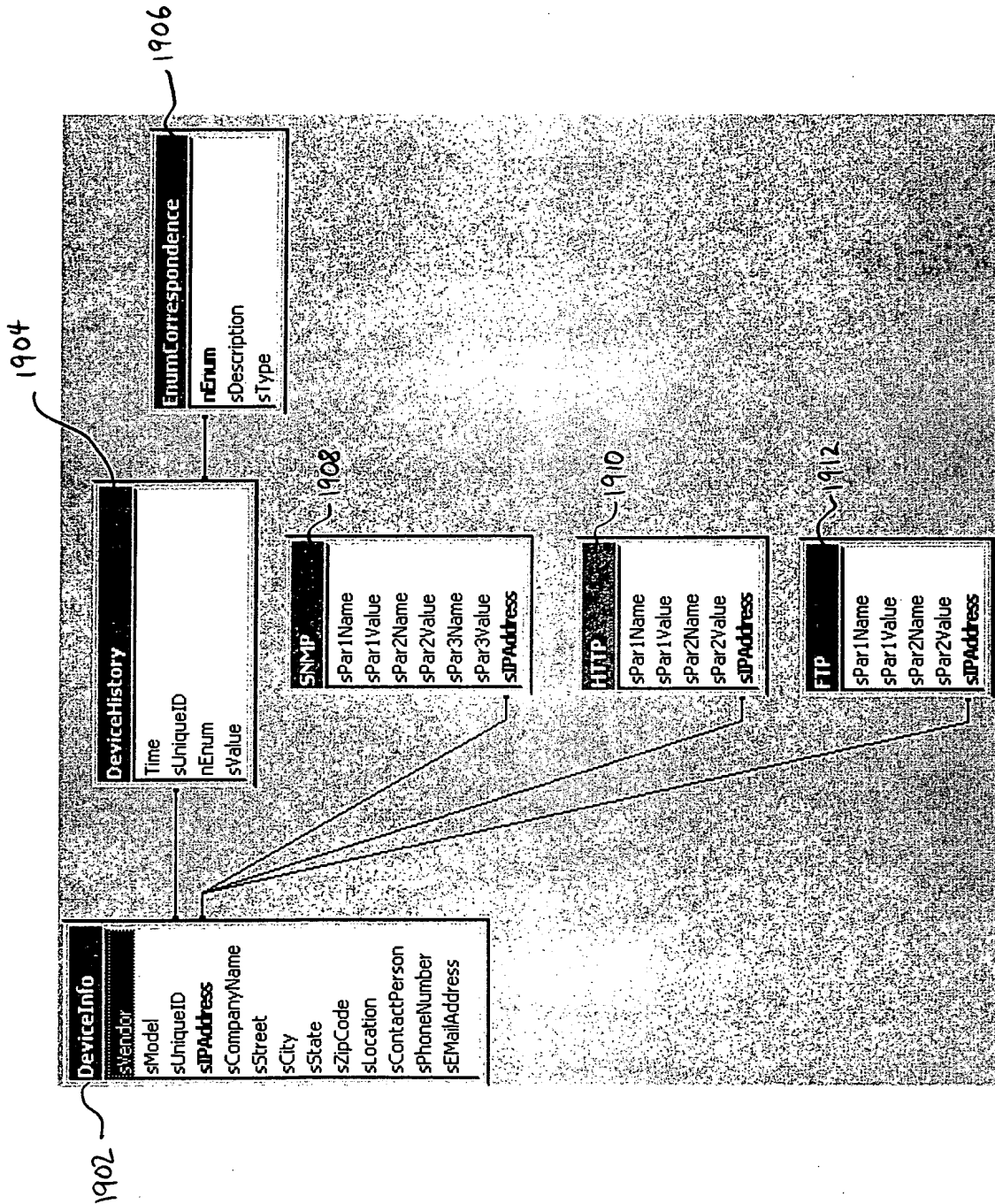


FIG. 19

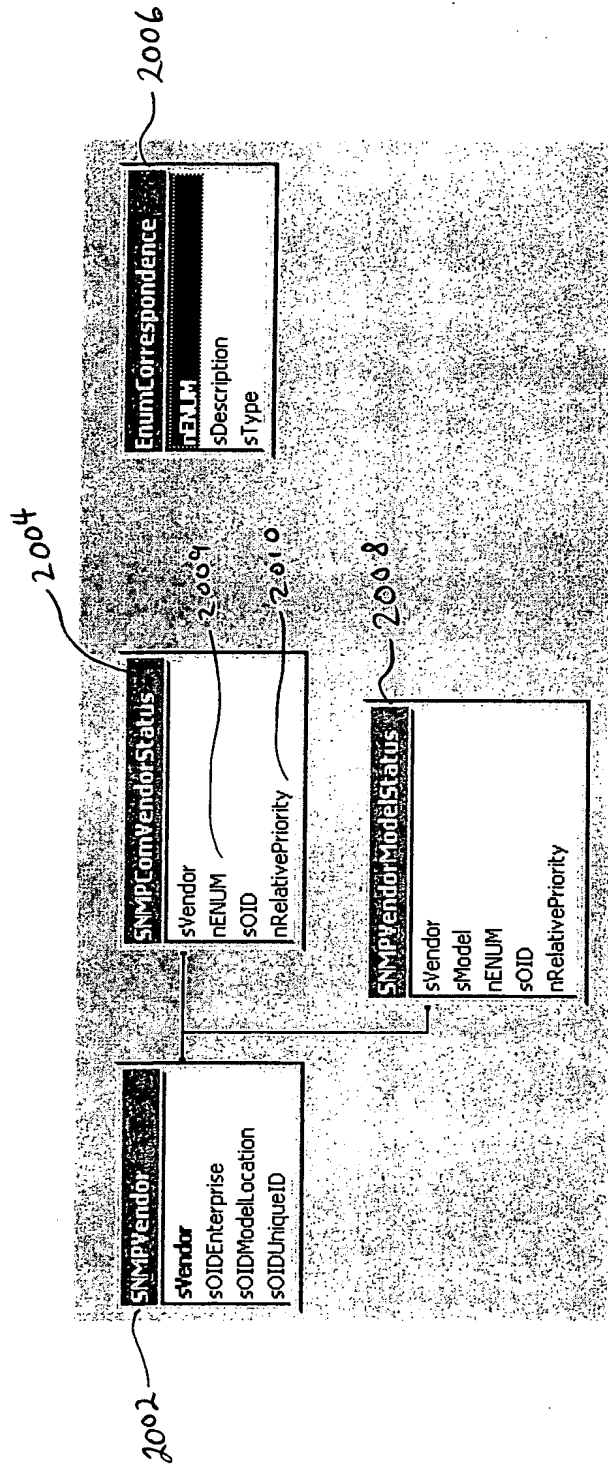


FIG. 20

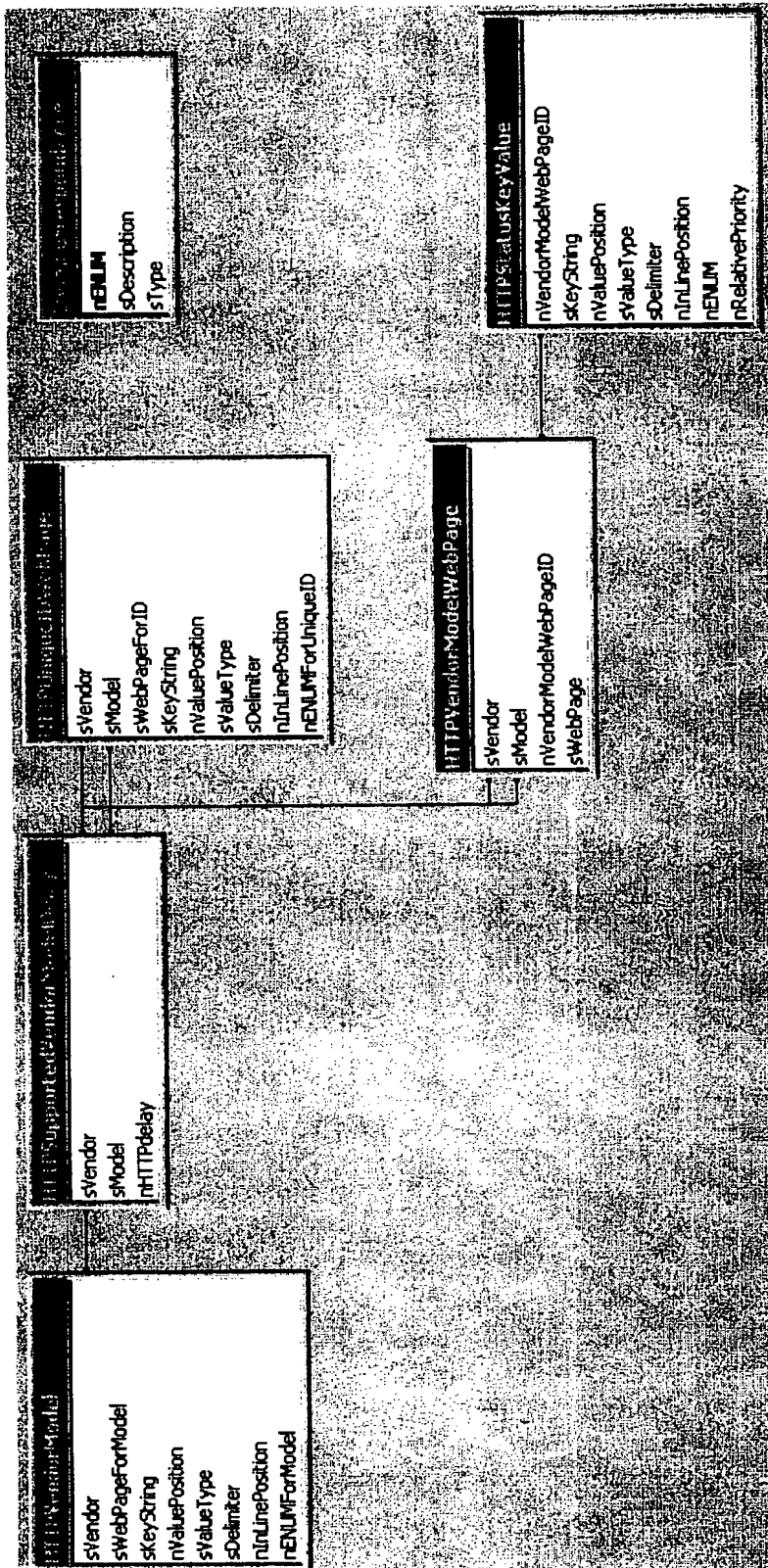


FIG. 21

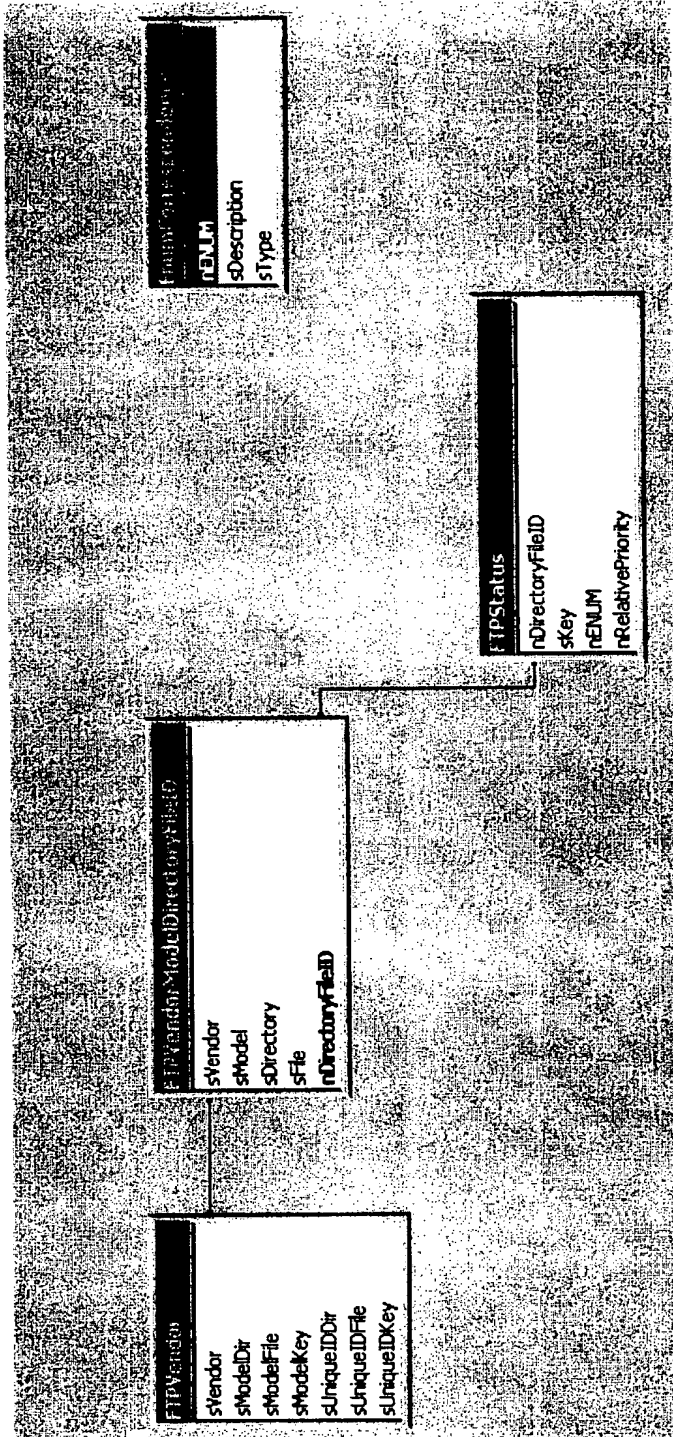


FIG. 22

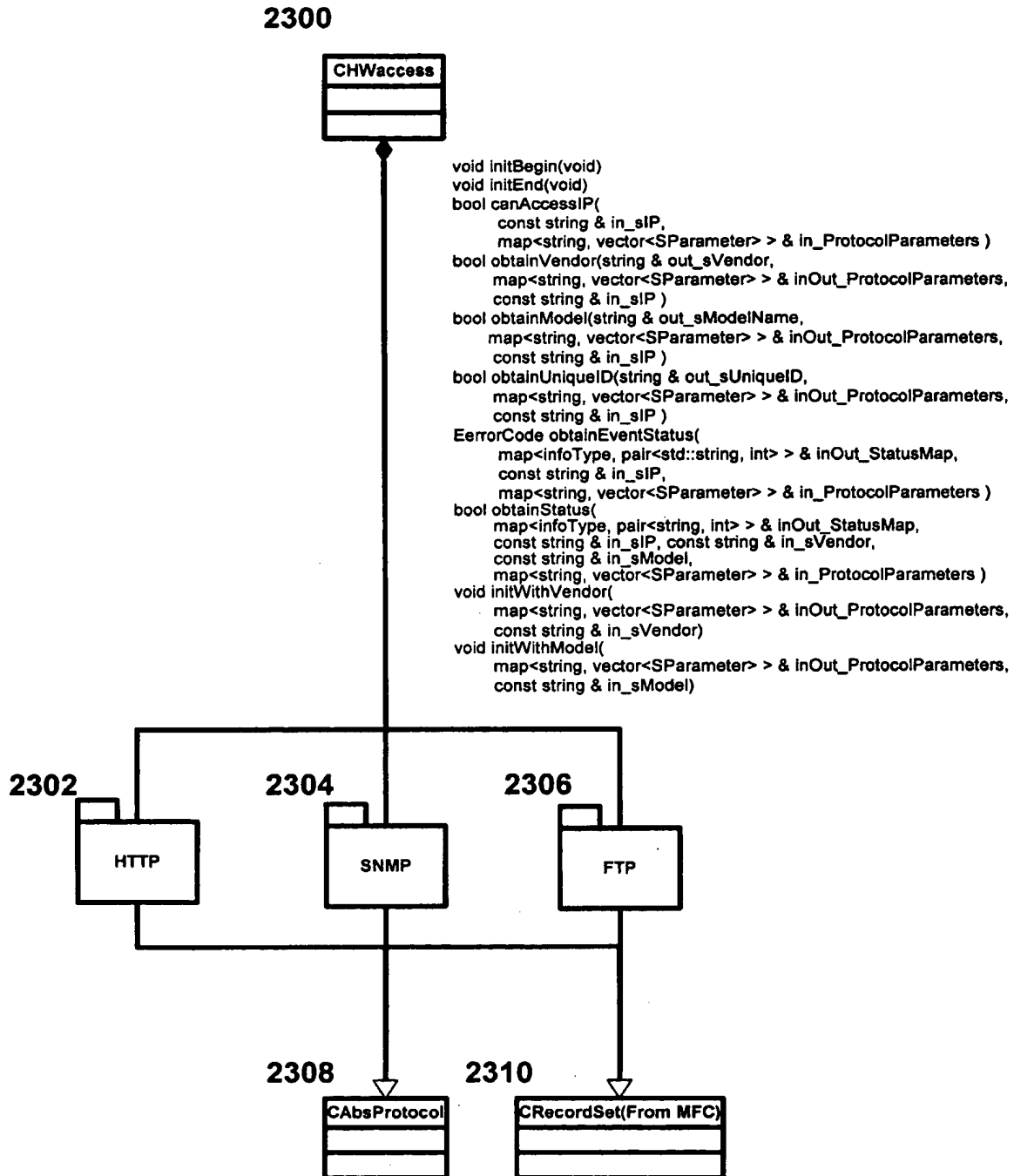


FIG. 23

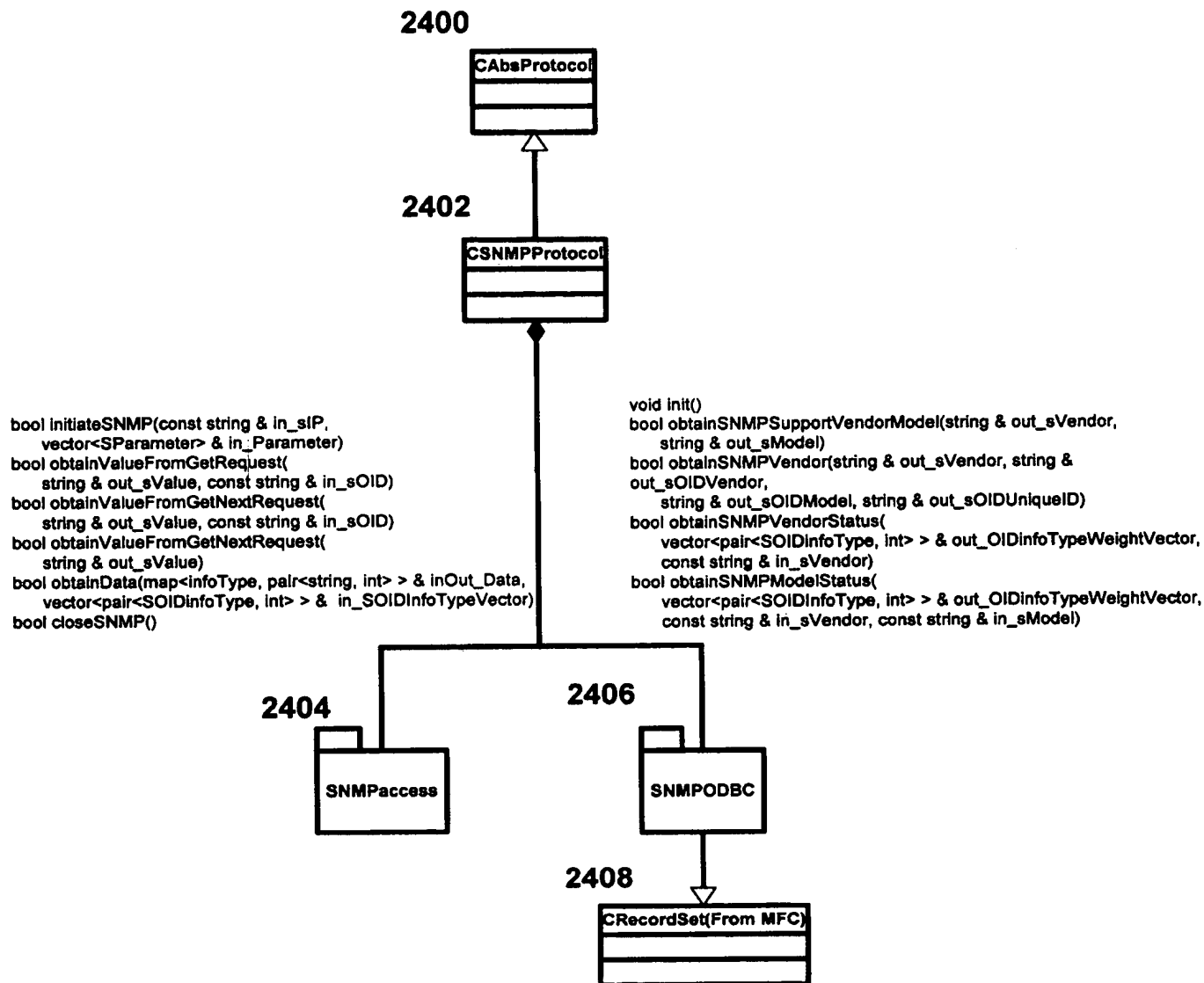


FIG. 24

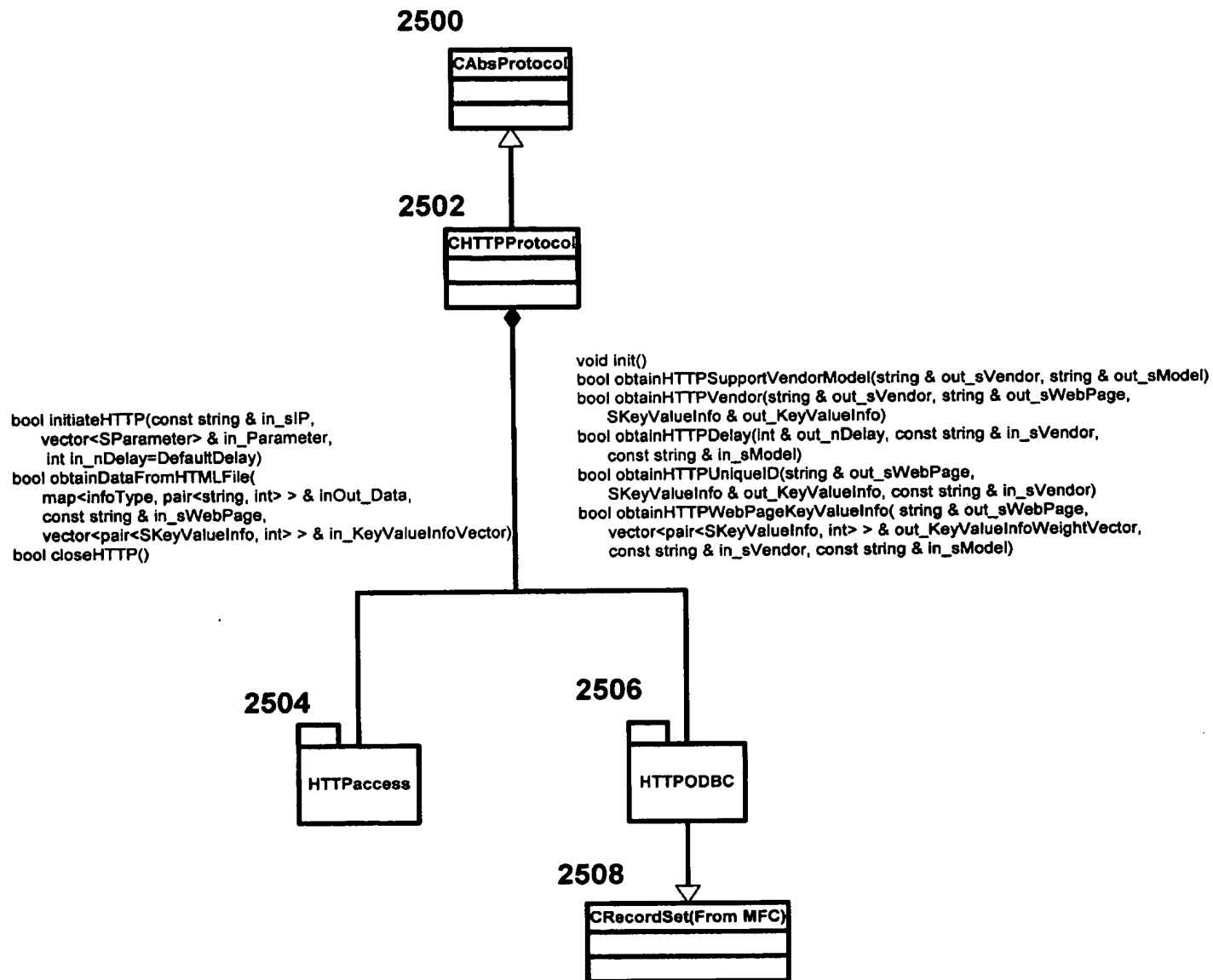


FIG. 25

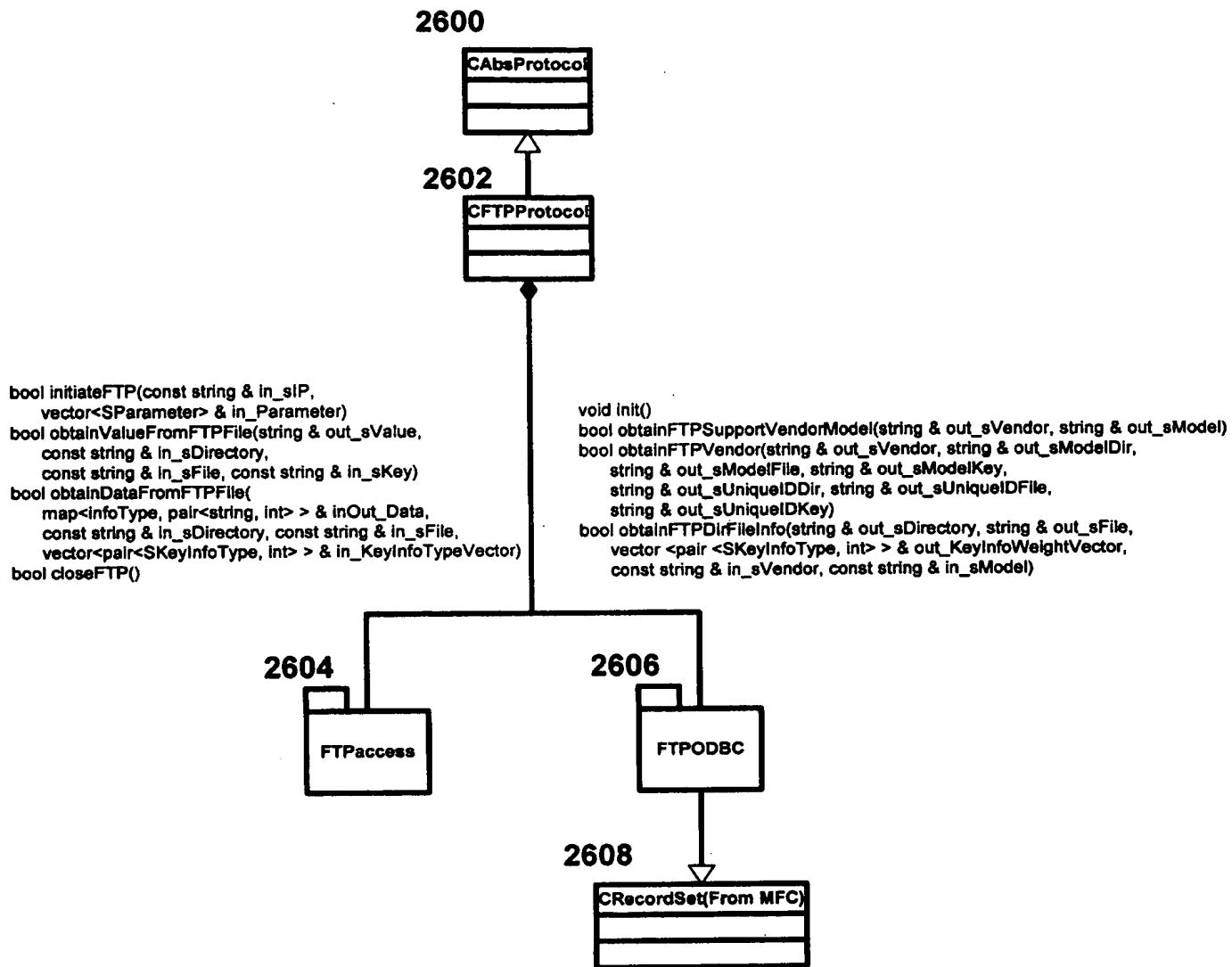


FIG. 26

Vector of CAbsProtocol*
500

CAbsProtocol* 502	CAbsProtocol* 504	CAbsProtocol* 506	...
------------------------------------	------------------------------------	------------------------------------	-----

FIG. 27A

std::map<std::string, std::map<std::string, std::vector<std::pair<SOIDinfoType, int> > >
510

string 512	map 514	
	string 516	vector 518
Ricoh	GENERIC	< (SOIDinfoType1, int1), (SOIDinfoType2, int2) >
	Aficio 1224C	< (SOIDinfoType3, int3) >
Xerox	GENERIC	< (SOIDinfoType4, int4), (SOIDinfoType5, int5) >
	DocuPrint NC60	< (SOIDinfoType5, int5) >

FIG. 27B

std::map<std::string, std::map<std::string, std::vector<SWebPageInfo> > >
520

string 522	map 524	
	string 526	vector 528
Ricoh	Aficio X	Vector of struct SWebPageInfo { std::string m_sWebPage; std::vector<std::pair<SKeyValueInfo, int> > m_KeyValueInfoVector; };
Xerox	N4025	

FIG. 27C

std::map<std::string, std::map<std::string, std::vector<SDirFileStatusInfo> > >
530

string 532	map 534	
	string 536	vector 538
Ricoh	Aficio	vector of struct SDirFileStatusInfo { std::string m_sDirectory; std::string m_sFile; std::vector<std::pair<SKeyInfoType, int> > m_KeyInfoTypeVector; };
Xerox	N4025	

FIG. 27D

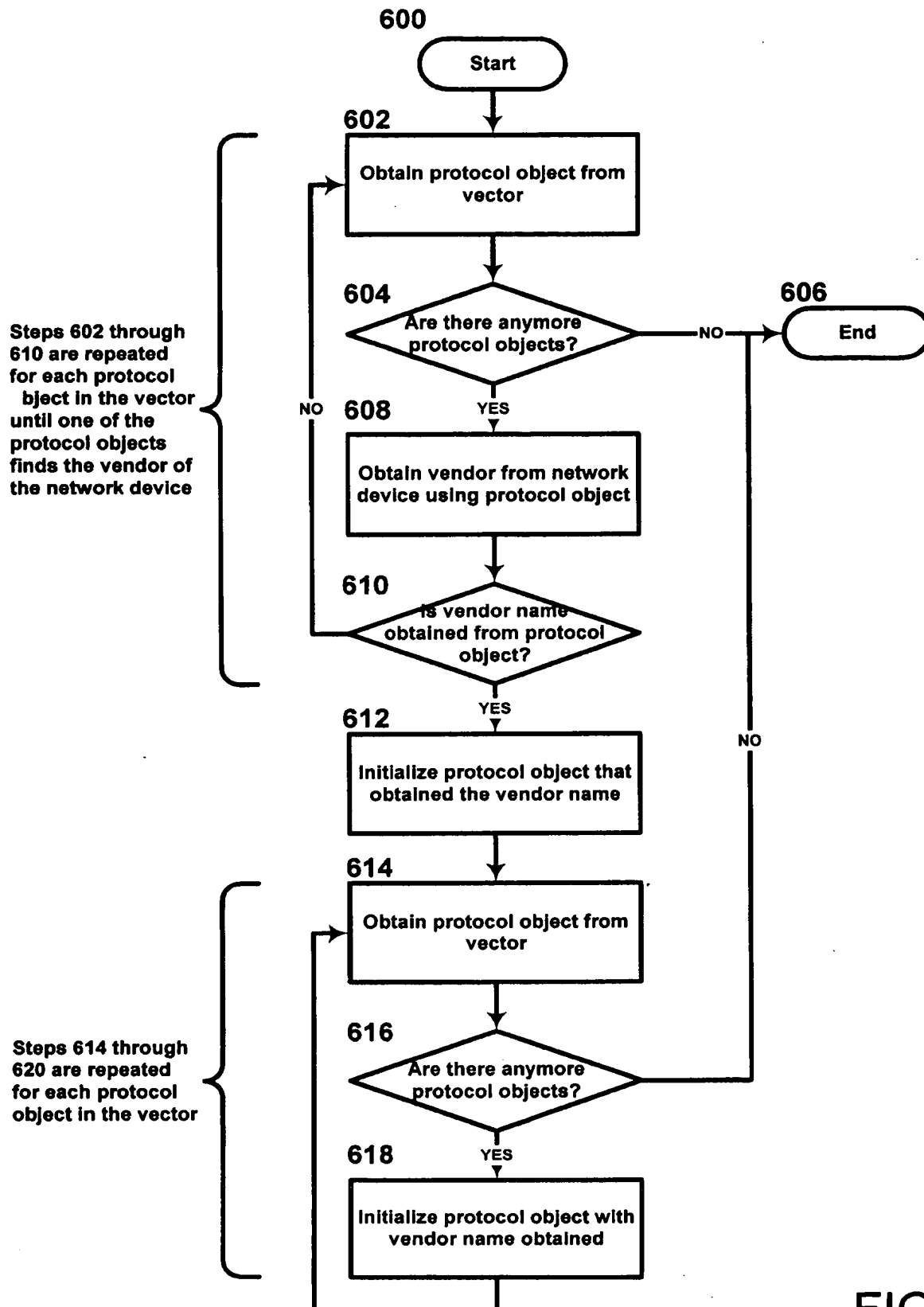


FIG. 28

SNMP Protocol
700

pair<SOIDInfoType, int> 702	pair<SOIDInfoType, int> 704	...
--------------------------------	--------------------------------	-----

FIG. 29A

706

```

struct SOIDInfoType {
    InfoType m_InfoType;
    std::string m_sOID;
    SOIDInfoType();
    ~SOIDInfoType();
    void clear();
};

```

HTTP Protocol
708

pair<SKeyValueInfo, int> 710	pair<SKeyValueInfo, int> 712	...
---------------------------------	---------------------------------	-----

FIG. 29B

714

```

struct SKeyValueInfo {
    InfoType m_InfoType;
    std::string m_sKey;
    int m_nPosition;
    std::string m_sType;
    std::string m_sDelimiter;
    int m_nInLinePosition;
    SKeyValueInfo();
    ~SKeyValueInfo();
    void clear();
};

```

FTP Protocol
716

pair<SKeyInfoType, int> 718	pair<SKeyInfoType, int> 720	...
--------------------------------	--------------------------------	-----

FIG. 29C

722

```

struct SKeyInfoType {
    InfoType m_InfoType;
    std::string m_sKey;
    SKeyInfoType();
    ~SKeyInfoType();
    void clear();
};

```

Status Information Map
724

726	728
InfoType	pair<string, int>
InfoType	pair<string, int>
InfoType	pair<string, int>
...	...

FIG. 29D

std::map<std::string, std::map<std::string, std::vector<SDirFileStatusInfo> > >

800

Ricoh	Aficio 120	<SDirFileStatusInfo1, SDirFileStatusInfo2, SDirFileStatusInfo3>

802

/pub
status.txt
<(SKeyInfoType1, 1000), (SKeyInfoType2, 5000), (SKeyInfoType3, 10000), (SKeyInfoType4, 7500), (SKeyInfoType5, 625)>

SKeyInfoType1 corresponds to the **infoType 600**, **SKeyInfoType2** corresponds to the **infoType 610**, **SKeyInfoType3** corresponds to the **infoType 620**, **SKeyInfoType4** corresponds to the **infoType 700**, and **SKeyInfoType5** corresponds to the **infoType 710**

Status Information Map

804

600	("Low Paper", 500)
610	("24321", 10000)
700	("OK", 2500)

FTP Protocol

806

(SKeyInfoType1, 1000)	(SKeyInfoType3, 10000)	(SKeyInfoType4, 7500)	(SKeyInfoType5, 625)
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FIG. 30

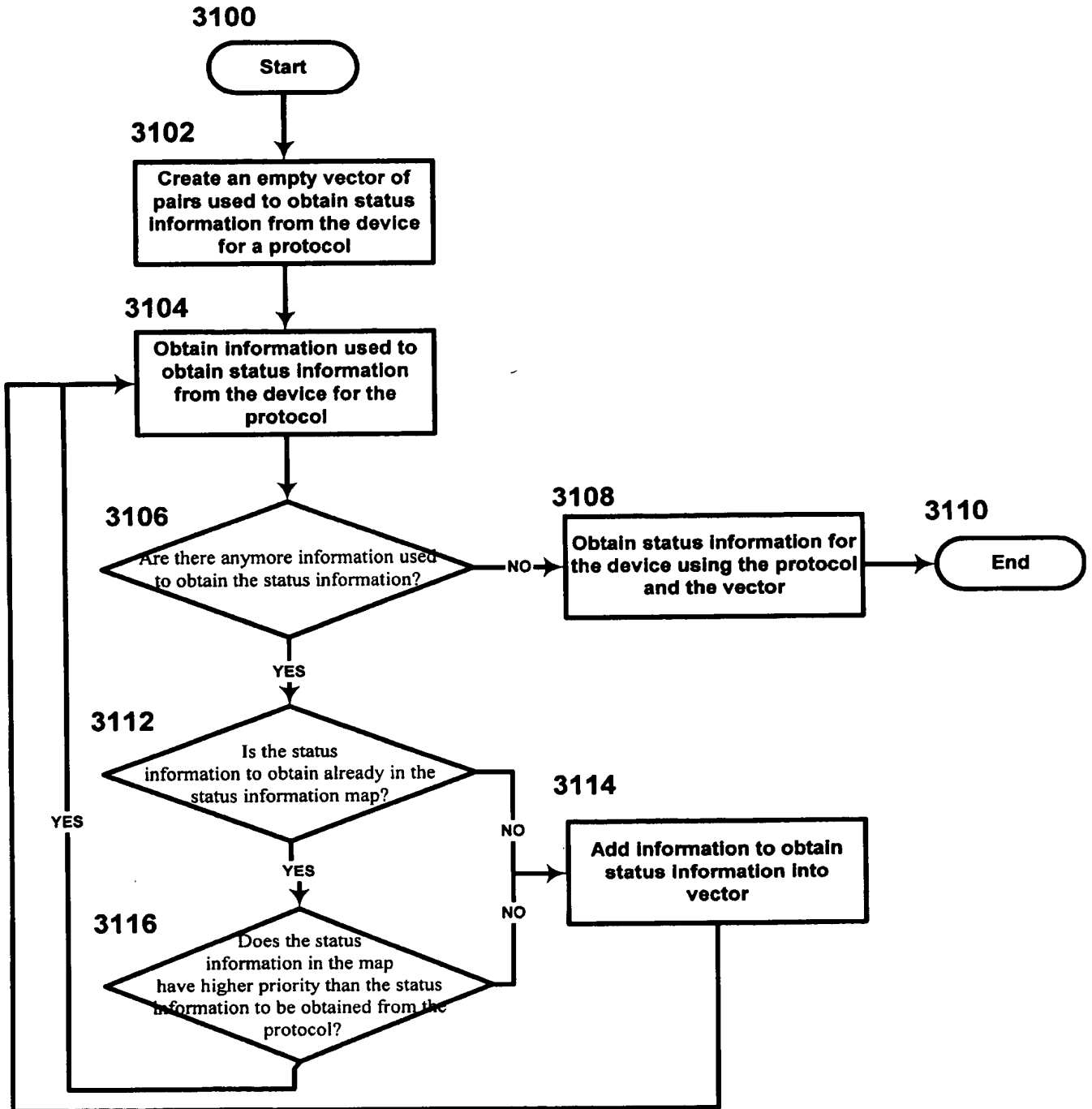


FIG. 31A

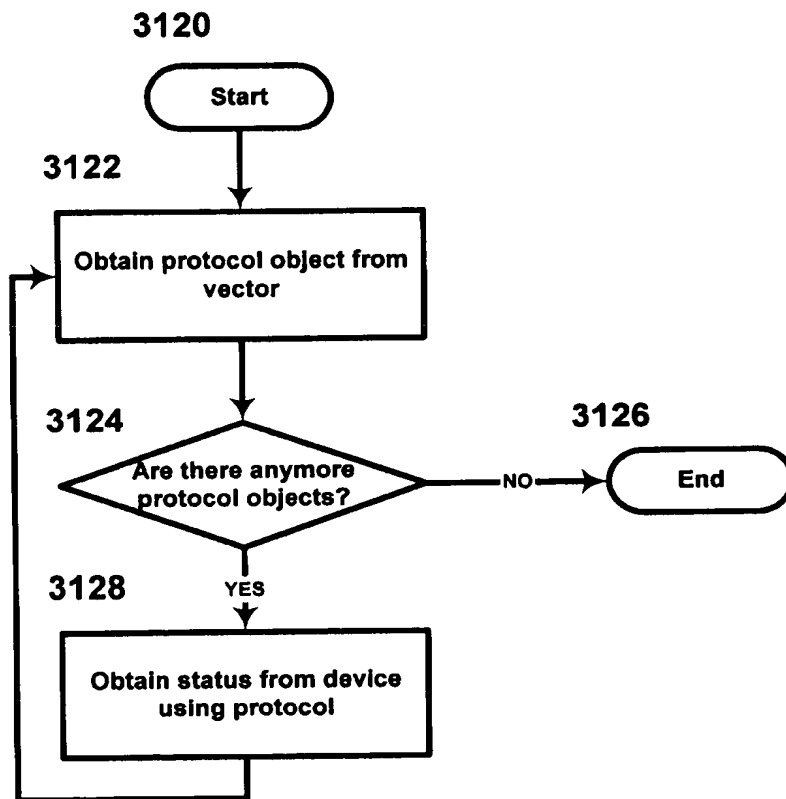


FIG. 31B

**Vendor Model Support Map
3200**

3202	3204
string	int
string	int
string	int
string	int
.

FIG. 32A

**Sample Vendor Model Support Map
3206**

3208	3210
Xerox%%%%NC60	1
Xerox%%%%N4025	1
HP%%%%LaserJet 9000	1
HP%%%%LaserJet 4550	1
.

FIG. 32B

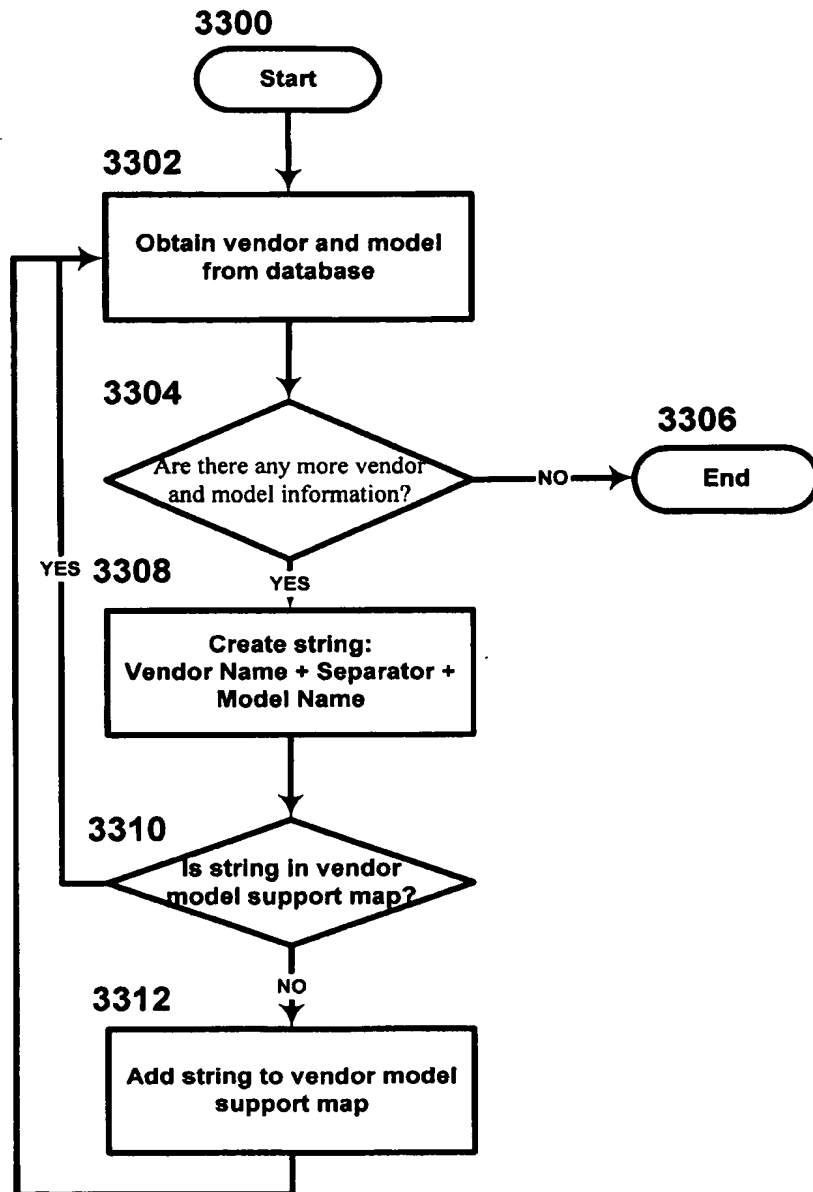


FIG. 33

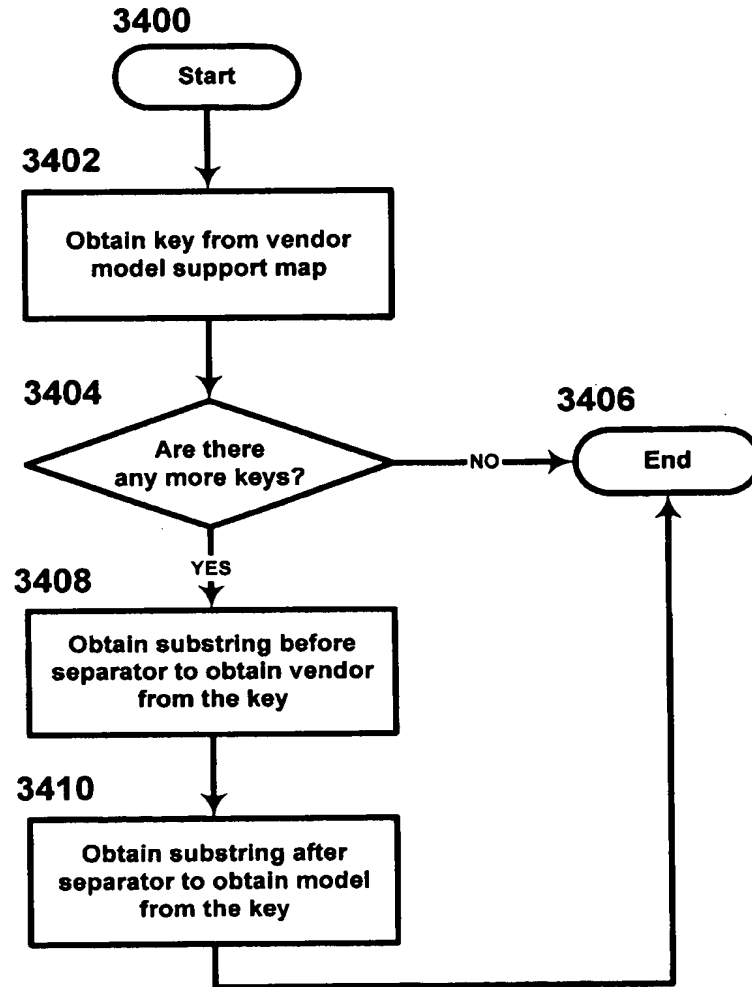


FIG. 34

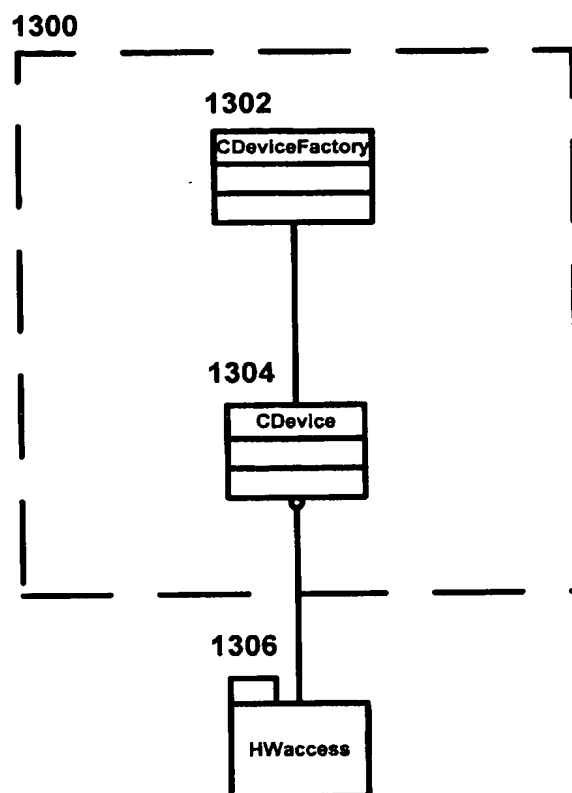


FIG. 35

**Protocol Parameter Map
1400**

1402	1404
string	vector<SParameter>
string	vector<SParameter>
string	vector<SParameter>
string	vector<SParameter>
...	...

1406

```
struct SParameter {
    std::string m_sParName;
    std::string m_sParValue;
    SParameter ();
    ~SParameter ();
    void clear();
};
```

FIG. 36A

1410

SNMP	<(COMMUNITY, private)>
FTP	<(USERNAME, abc), (PASSWORD, xyz)>

FIG. 36B

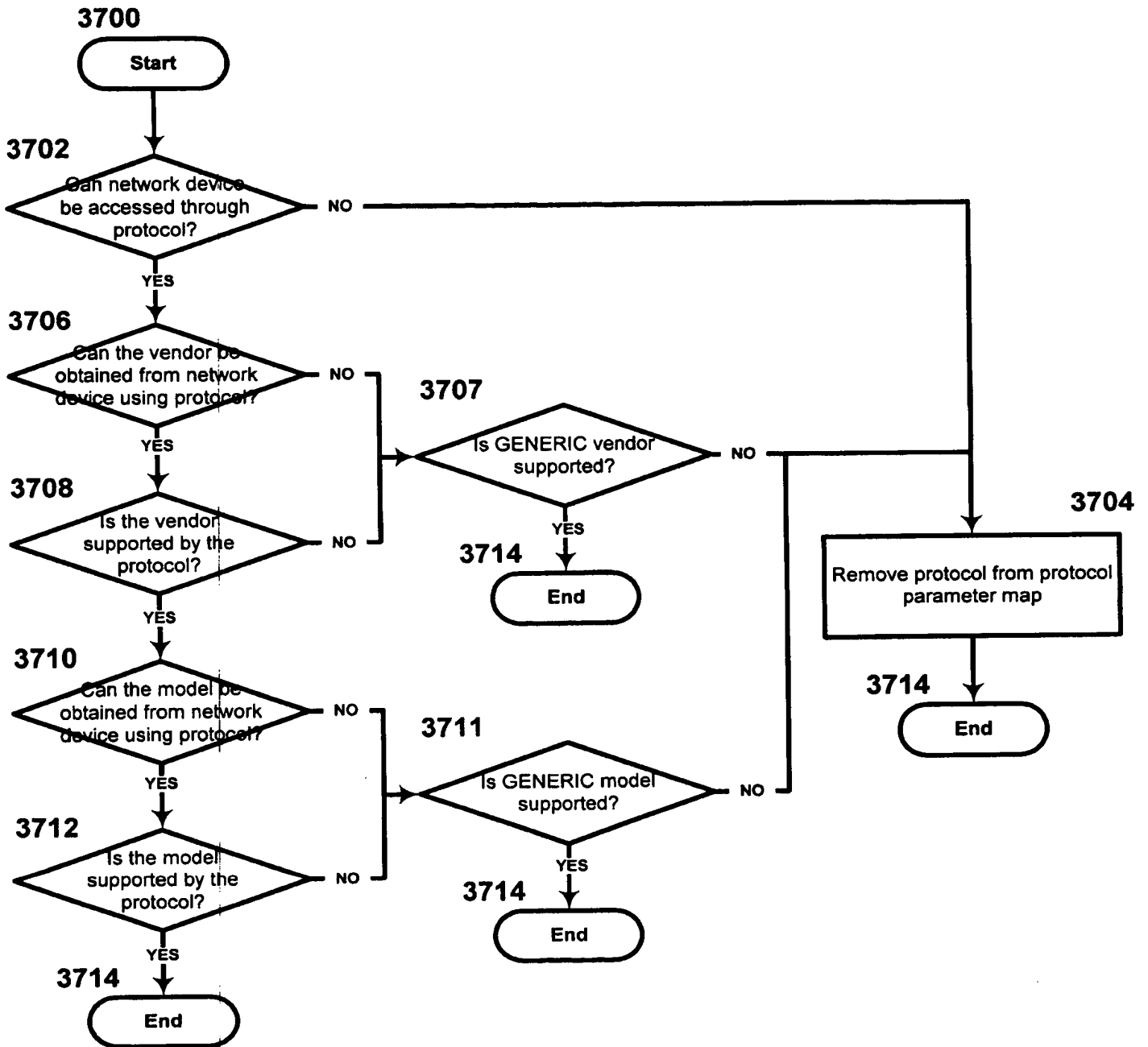


FIG. 37